

pg 672 #1-8, 15, 27-49, skip 37, 41, 43

1) B 2) C 3) A 4) ~~B~~

9) $x^2 - \frac{y^2}{8} = 1$ 11) $\frac{y^2}{16} - \frac{x^2}{20} = 1$ 13) $\frac{x^2}{9} - \frac{y^2}{16} = 1$ 15) $\frac{y^2}{36} - \frac{x^2}{9} = 1$

27.) $x^2 - y^2 = 1$ 29) $\frac{y^2}{36} - \frac{x^2}{9} = 1$ 31) $\frac{(x-4)^2}{4} - \frac{(y+1)^2}{5} = 1$

33) $\frac{(y+4)^2}{4} - \frac{(x+3)^2}{12} = 1$

V(2, -1) (6, -1)
F(1, -1) (7, -1)
 $y = \frac{\sqrt{5}}{2}x - 2\sqrt{5} + 1$
 $y = -\frac{\sqrt{5}}{2} + 2\sqrt{5} - 1$

F(-3, 0) (-3, -8)
V(-3, -6) (-3, -2)
 $y = \frac{\sqrt{3}}{3}x + \sqrt{3} - 4$
 $y = -\frac{\sqrt{3}}{3}x - \sqrt{3} - 4$

~~39)~~ C(2, -3)
V(4, -3) (0, -3)
F(2 ± √3, -3)
 $y = \frac{3}{2}x - 6$ $y = -\frac{3}{2}x$

35) $(x-5)^2 - \frac{(y-7)^2}{3} = 1$

V(4, 7) (6, 7)
F(3, 7) (7, 7)
 $y = \sqrt{3}x - 5\sqrt{3} + 7$
 $y = -\sqrt{3}x + 5\sqrt{3} + 7$

41) C(-2, 2)
V(-2, 4) (-2, 0)
F(-2, 2 ± √5)
 $y = 2x + 6$
 $y = -2x - 2$

43) C(-1, -2)
V(1, -2) (-3, -2)
F(-1 ± 2√2, -2)
 $y = x - 1$
 $y = -x - 3$

45) (1, -1)
V(0, -1) (2, -1)
F(1 ± √2, -1)
 $y = x - 2$
 $y = -x$